SEQUENCE LISTING

<110>   SUNG, SOON-KEE
          LEE, YOUNG-PYO
          YU, GYUNG-HEE
          CHOI, YEON-OK

<120>   The usage of MADS-box genes in fruit & seed development by
          regulating active gibberelin synthesis

<130>   428.1074

<140>   US/10/588,095
<141>   2006-07-28

<150>   PCT/KR05/00282
<151>   2005-01-31

<150>   KR10-2004-10432
<151>   2004-02-17

<150>   KR10-2004-6551
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<160>   24

<170>   KopatentIn 1.71

<210>   1
<211>   1065
<212>   DNA
<213>   Malus domestica

<220>
<221>   gene
<222>   (1)..(1065)
<223>   Malus domestica mRNA for C-type MADS-box protein (MdMADS14)

<400>   1
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actcaaagtc aagaactaac agaaagagcc acaattcatc tattttgagg ggttttttgcc   120

attttttcatc cttgtaacaa tggagttcgc aaatcaagca cctgagagct ctacccaaaa   180

aaaattggga agaggcaaaa ttgagattaa gcggatcgaa aacactacca atcgacaagt   240

caccttctgc aaacgccgca acggattgct taagaaagcc tatgaattgt ctgttctttg   300

tgatgctgaa gttgctctta tcgtcttctc cacccgtggc cgcctctatg agtatgctaa   360

caacagcgtt agagcaacaa tcgacaggta caaaaaagca tgcgctgatt ctacggacgg   420

tggatctgta tcagaagcta acactcagtt ttatcagcag gaagcatcaa aactgcgaag   480

1

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acagatccga gaaattcaga attcaaacag gcatatactg ggggaatccc ttagcacctt      540

gaaagtcaag gaactgaaaa acctagaagg aagattggag aaaggaatca gcagaataag      600

atccaaaaag aatgaaatcc tgttttctga aatcgaattc atgcaaaaga gggagactga      660

gctgcaacac cacaacaatt ttctgagagc aaagatagct gaaagcgaga gggaacagca      720

gcagcagcaa acacatatga ttccgggaac ttcctacgat ccgtcgatgc cttcgaattc      780

gtatgacagg aacttcttcc ctgtgatctt ggagtccaat aataaccatt accctcgcca      840

aggccagaca gctctccaac ttgtttgaaa tgctggactg ccgtctgatg ttcttctatc      900

catatcctct gatctgtctt cataaatcta tgagataatt gacgttgtag tttttatgta      960

tatgggagaa ccagtttgct catgttctcc ataatatata tatgtgtgat gatggacccc     1020

aattctgtga taacatatat agtaaatttt attttctcac cccga                     1065


<210>     2
<211>     876
<212>     DNA
<213>     Malus domestica

<220>
<221>     gene
<222>     (1)..(876)
<223>     Malus x domestica AGAMOUS-like protein mRNA, complete
          cds (MdMADS16)


<400>     2
gcaattcttc cttcccgttg ccaagtgcaa ccccaataga aaaactcaaa gtcaagaact       60

agctaacaga gaaaaccaca attcatcaat ttggaggggt ttttgccatt tttcatcctt      120

gcaacaatgg agttcccaaa tcaagcaccc gagagctcct cccagaaaaa attgggaagg      180

ggcaaaattg agattaagcg gatcgaaaac actacaaatc gacaagttac cttctgcaaa      240

cgccgcaacg gattgcttaa gaaagcctat gaattgtctg ttctttgtga tgctgaagtt      300

gctcttatcg tgttctccaa ccgtggccgc ctctatgagt atgctaacaa cagtgttaga      360

gcaacaatcg acaggtacaa aaaagcatac gctgatccta cgaacagtgg atctgtttca      420

gaagccaaca ctcagtttta tcagcaggaa gcatccaaac tgcgaagaca gatccgagaa      480

attcagaatt caaacaggca tatactgggt gaagctctta gctccttgaa cgccaaggaa      540

ctgaagaacc tagaaggaag attggagaaa ggaatcagca gaataagatc caaaaagaat      600

gaaatgctgt tttctgaaat cgaattcatg caaaaaaggg agaccgagct gcaacaccac      660

aacaattttc tgagagcaaa gatagctgaa aacgagaggg aagagcagca gcatacacac      720
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atgatgccgg gaacttccta cgatcagtca atgccttcgc attcttatga caggaacttc    780

ctcccagcgg tgatcttgga gtccaacaat aaccattacc ctcaccaagt ccagacagct    840

ctccaacttg tttgaaatgc tggactgccg tctgat                              876


<210>      3
<211>      20
<212>      DNA
<213>      Artificial Sequence

<220>
<223>      first forward degenerate primer


<220>
<221>      misc_feature
<222>      (1)..(20)
<223>      6th, 12th, 15th nucleotide 'n' represent inosine


<400>      3
aaycgncarg tnacnttytg                                                     20


<210>      4
<211>      19
<212>      DNA
<213>      Artificial Sequence

<220>
<223>      first reverse degenerate primer


<220>
<221>      misc_feature
<222>      (1)..(19)
<223>      3th, 12th, 15th and 18th nucleotide 'n' represent inosine


<400>      4
tcngcgatyt tnshnckna                                                      19


<210>      5
<211>      20
<212>      DNA
<213>      Artificial Sequence

<220>
<223>      second forward degenerate primer


<220>
<221>      misc_feature
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<222>   (1)..(20)
<223>   9th and 18th nucleotide 'n' represent inosine

<400>   5
aaraargcnt aygarytntc   20

<210>   6
<211>   36
<212>   DNA
<213>   Artificial Sequence

<220>
<223>   third forward primer

<400>   6
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<210>   7
<211>   27
<212>   DNA
<213>   Artificial Sequence

<220>
<223>   third reverse primer

<400>   7
atccactgtt cgtaggatca gcgtatg   27

<210>   8
<211>   28
<212>   DNA
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<220>
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<400>   8
ggctgcagga attcggcact aggcaatt   28

<210>   9
<211>   26
<212>   DNA
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<223>   forth reverse primer

<400>   9

4

gcaagcttat cagacggcag tccagc   26

<210>   10
<211>   21
<212>   DNA
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<220>
<223>   MdMADS14 forward primer

<400>   10
gggaacagca gcagcagcaa a   21

<210>   11
<211>   21
<212>   DNA
<213>   Artificial Sequence

<220>
<223>   MdMADS14 reverse primer

<400>   11
ctccaagatc acagggaaga a   21

<210>   12
<211>   21
<212>   DNA
<213>   Artificial Sequence

<220>
<223>   MdMADS16 forward primer

<400>   12
tgaaaacgag agggaagagc a   21

<210>   13
<211>   21
<212>   DNA
<213>   Artificial Sequence

<220>
<223>   MdMADS16 reverse primer

<400>   13
caagatcacc gctgggagga a   21

<210>   14
<211>   21

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<212>      DNA
<213>      Artificial Sequence

<220>
<223>      ACTIN forward primer


<400>      14
cgatggccaa gtcatcacaa t                                                21


<210>      15
<211>      21
<212>      DNA
<213>      Artificial Sequence

<220>
<223>      ACTIN reverse primer


<400>      15
tctcatgaat gccagcagct t                                                21


<210>      16
<211>      249
<212>      DNA
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<220>
<223>      hybridization probe


<400>      16
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gaaaacgaga gggaagagca gcagcataca cacatgatgc cgggaacttc ctacgatcag     120

tcaatgcctt cgcattctta tgacaggaac ttcctcccag cggtgatctt ggagtccaac     180

aataaccatt accctcacca agtccagaca gctctccaac ttgtttgaaa tgctggactg     240

ccgtctgat                                                             249


<210>      17
<211>      21
<212>      DNA
<213>      Artificial Sequence

<220>
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<400>      17
gaggctattc ggctatgact g                                                21
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6

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<210>    18
<211>    21
<212>    DNA
<213>    Artificial Sequence

<220>
<223>    npt II reverse primer


<400>    18
atcgggagcg gcgataccgt a                                                21


<210>    19
<211>    24
<212>    DNA
<213>    Artificial Sequence

<220>
<223>    MdMADS forward primer


<400>    19
gaattcaaac aggcatatac tggg                                             24


<210>    20
<211>    21
<212>    DNA
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<220>
<223>    MdMADS reverse primer


<400>    20
gacggatcgt aggaagttcc c                                                21


<210>    21
<211>    21
<212>    DNA
<213>    Artificial Sequence

<220>
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<400>    21
tggtacactt gaaggaaccc a                                                21


<210>    22
<211>    20
<212>    DNA
<213>    Artificial Sequence
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<220>
<223>    RIN reverse primer


<400>    22
catgtgttga tggtgctgca                                         20


<210>    23
<211>    18
<212>    DNA
<213>    Artificial Sequence

<220>
<223>    Le20ox-1 forward primer


<400>    23
cccaacaagc atctgagc                                           18


<210>    24
<211>    18
<212>    DNA
<213>    Artificial Sequence

<220>
<223>    Le20ox-1 reverse primer


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